

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>1</u>	
Coordinates:	Date: <u>12-14-87</u>	Water Depth <u>34</u> NGVD	
N = <u>854304.2</u>	Start Time <u>0901</u>	Driller <u>M.L. CLARKE</u>	
E = <u>817873.2</u>	End Time <u>0925</u>	Client Rep. <u>JEFF ANDREWS</u> <u>FRED KAUB</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>		0				
Length of Barrel <u>20'</u>				GREY SAND (10YR 7/1)	.7'	(SP)
Penetration Depth <u>19'6"</u>						
Length Recovered <u>18'6"</u>				GREY SAND (10YR 7/2)	3.5'	(SP)
Length Retained <u>18'6"</u>						
Remarks:						
PENETRATION TIME 24 MIN		5		GREY SAND (10YR 7/1)		
Support Vessel <u>G.W. PIERCE</u>						
Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks:						SHELL QTY 2 10/10
		10				
Weather <u>CLEAR</u>						
Wind						
Dir: <u>SE</u>				SHELL LAYER		
Est. Speed <u>15-20 K</u>				GREY SAND (10YR 6/1)	11.6'	(SP)
Waves						
Dir: <u>SE</u>						
Height <u>3-4'</u>						
Current						
Dir: <u>N/A</u>		15				
Est. Speed:						
Analysis By: <u>FK</u>						
Date: <u>12/20/87</u>						
Analysis Method:				SHELL LAYER		
VISUAL LOG					17.7'	(SP)
MECHANICAL SIEVE		20				

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	1	1	1
SAMPLE DEPTH (FT)	.7	3.5	11.6

U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	345.26	330.59	235.58
SAMPLE WT AFTER WASH	341.21	327.03	230.71

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	0.01	0.00	100.00	'	1.00	0.30	99.70	'	0.41	0.17	99.83	'
7	-1.50	2.8	0.62	0.18	99.82	'	1.81	0.55	99.45	'	0.45	0.19	99.81	'
10	-1.00	2	1.73	0.50	99.50	'	2.57	0.78	99.22	'	0.82	0.35	99.65	'
14	-0.50	1.4	2.97	0.86	99.14	'	4.41	1.33	98.67	'	1.18	0.50	99.50	'
18	0.00	1	6.11	1.77	98.23	'	5.69	1.72	98.28	'	1.80	0.76	99.24	'
25	0.50	0.71	9.16	2.65	97.35	'	8.65	2.62	97.38	'	1.98	0.84	99.16	'
35	1.00	0.5	18.84	5.46	94.54	'	16.71	5.05	94.95	'	3.56	1.51	98.49	'
45	1.50	0.355	31.92	9.25	90.75	'	45.36	13.72	86.28	'	8.65	3.67	96.33	'
60	2.00	0.25	58.47	16.94	83.06	'	187.13	56.60	43.40	'	40.98	17.40	82.60	'
80	2.50	0.18	162.23	46.99	53.01	'	268.32	81.16	18.84	'	145.36	61.70	38.30	'
120	3.00	0.125	312.21	90.43	9.57	'	324.58	98.18	1.82	'	207.62	88.13	11.87	'
170	3.50	0.09	338.56	98.06	1.94	'	326.20	98.67	1.33	'	228.65	97.06	2.94	'
200	3.75	0.075	339.27	98.27	1.73	'	326.69	98.82	1.18	'	229.59	97.46	2.54	'
230	4.00	0.063	339.98	98.47	1.53	'	326.95	98.90	1.10	'	229.71	97.51	2.49	'
PAN			340.91	98.74		'	326.99	98.91		'	229.78	97.54		'

SIEVE LOSS	0.30	0.04	0.93
WEIGHTED AVE(mm)	0.197	0.261	0.187
SILT-CLAY %	1.65	1.17	2.15

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	1	2	2
SAMPLE DEPTH (FT)	17.7	1.7	6.8

U.S.C.S.	SP	SP	SP
DESCRIPTION			

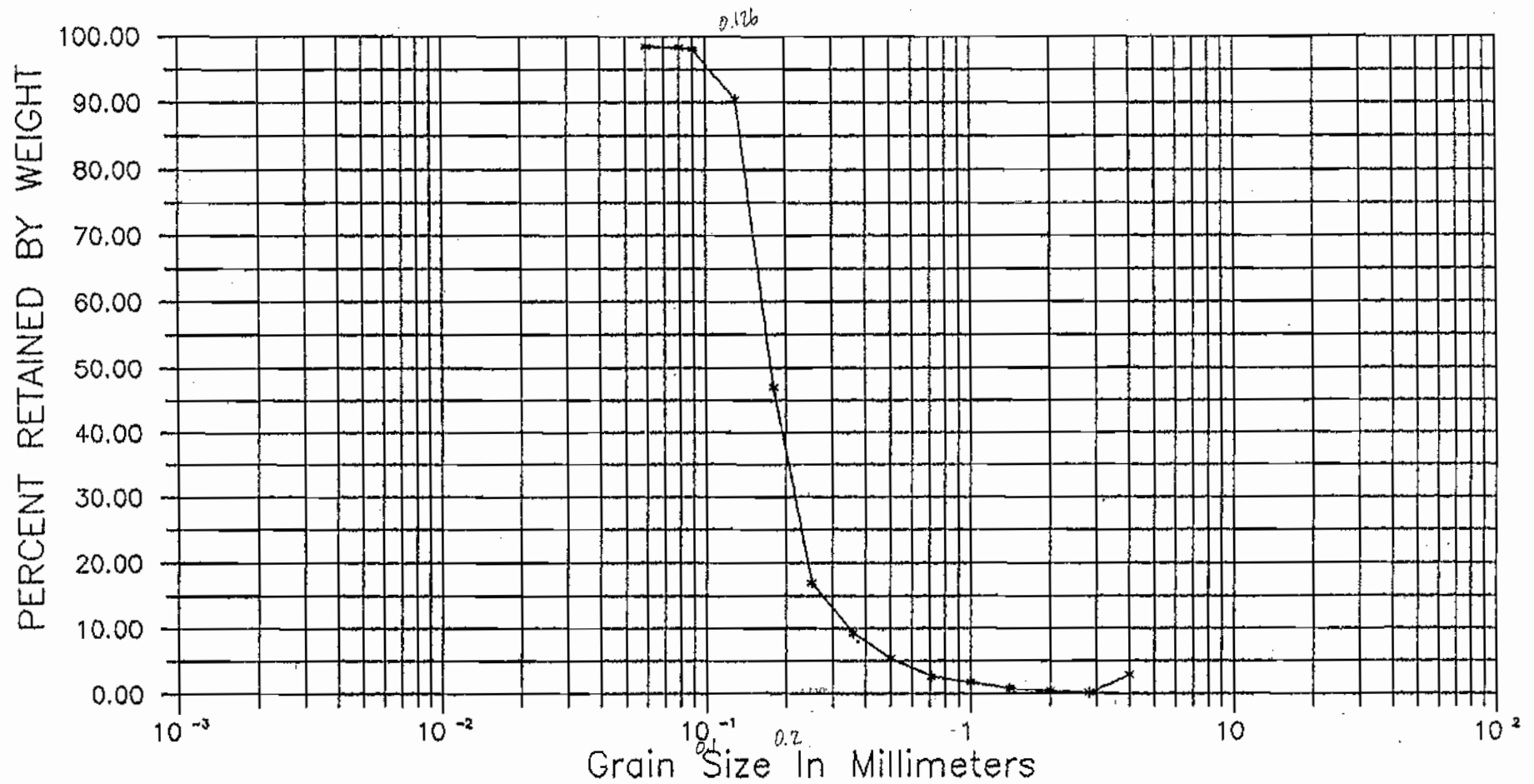
DRY SAMPLE WT (GRAMS)	395.45	233.56	198.56
SAMPLE WT AFTER WASH	390.98	230.56	194.36

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.05	0.01	99.99	,	1.27	0.54	99.46	,	0.00	0.00	100.00
7	-1.50	2.8	0.13	0.03	99.97	,	2.36	1.01	98.99	,	0.12	0.06	99.94
10	-1.00	2	0.59	0.15	99.85	,	2.96	1.27	98.73	,	0.89	0.45	99.55
14	-0.50	1.4	1.07	0.27	99.73	,	6.32	2.71	97.29	,	1.65	0.83	99.17
18	0.00	1	2.56	0.65	99.35	,	9.63	4.12	95.88	,	2.03	1.02	98.98
25	0.50	0.71	6.35	1.61	98.39	,	13.58	5.81	94.19	,	2.95	1.49	98.51
35	1.00	0.5	14.25	3.60	96.40	,	19.63	8.40	91.60	,	6.93	3.49	96.51
45	1.50	0.355	36.25	9.17	90.83	,	45.36	19.42	80.58	,	17.45	8.79	91.21
60	2.00	0.25	135.26	34.20	65.80	,	135.32	57.94	42.06	,	100.32	50.52	49.48
80	2.50	0.18	250.36	63.31	36.69	,	197.54	84.58	15.42	,	151.23	76.16	23.84
120	3.00	0.125	354.36	89.61	10.39	,	228.36	97.77	2.23	,	192.53	96.96	3.04
170	3.50	0.09	389.26	98.43	1.57	,	229.20	98.13	1.87	,	193.05	97.23	2.77
200	3.75	0.075	390.58	98.77	1.23	,	229.31	98.18	1.82	,	194.17	97.79	2.21
230	4.00	0.063	390.69	98.80	1.20	,	229.56	98.29	1.71	,	194.20	97.80	2.20
PAN			390.73	98.81		,	229.58	98.30		,	194.20	97.80	

SIEVE LOSS	0.25	0.98	0.16
WEIGHTED AVE(mm)	0.204	0.304	0.231
SILT-CLAY %	1.17	1.40	2.13

COASTAL PLANNING & ENGINEERING, INC., 3200 N. FEDERAL HIGHWAY, SUITE 123, BOCA RATON, FL 33431

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

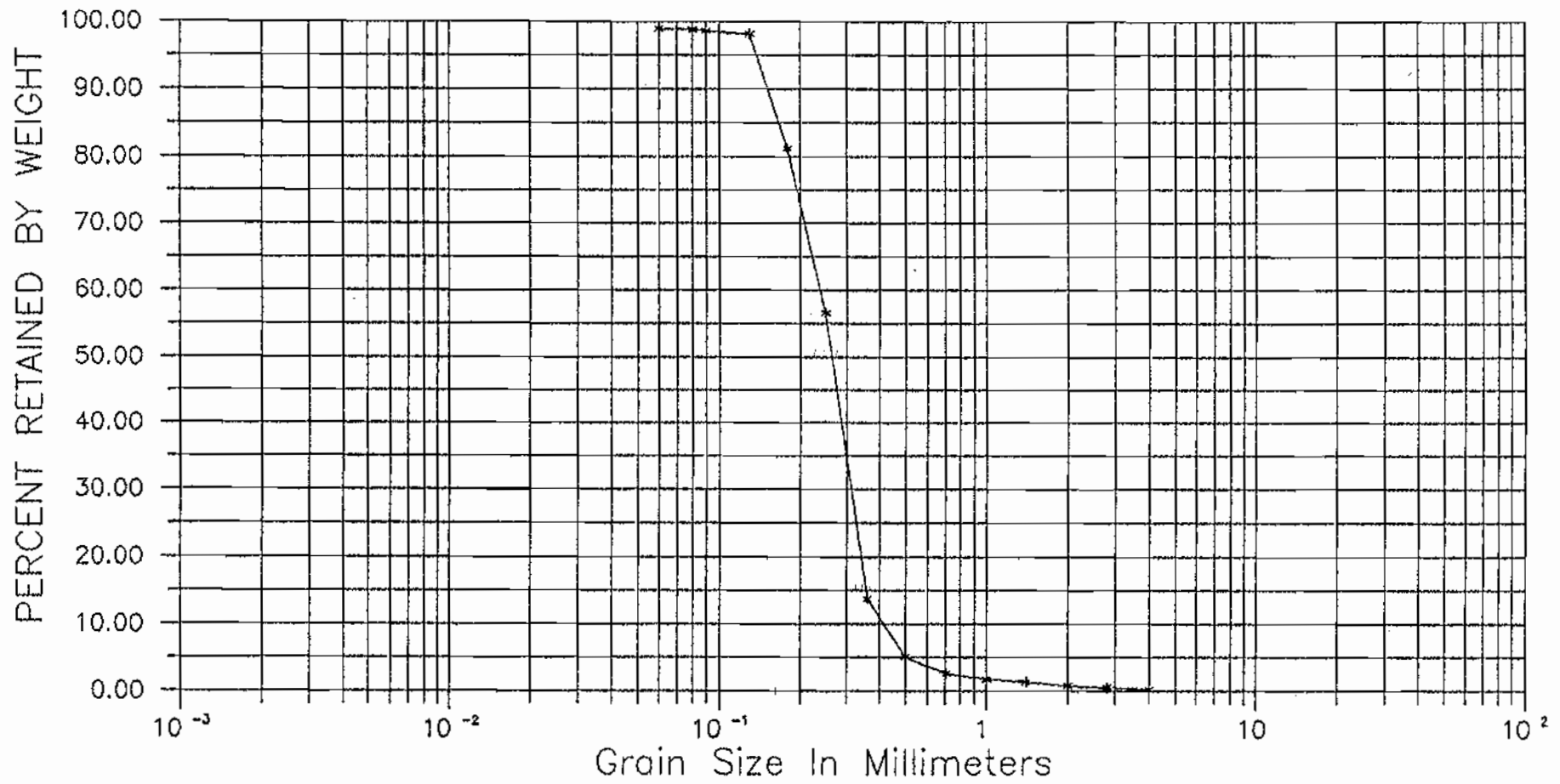
SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
1			
.7'	.19mm	.18mm	48
	.19mm	.18	.45
	GREY POORLY GRADED SAND - (SP)		

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MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

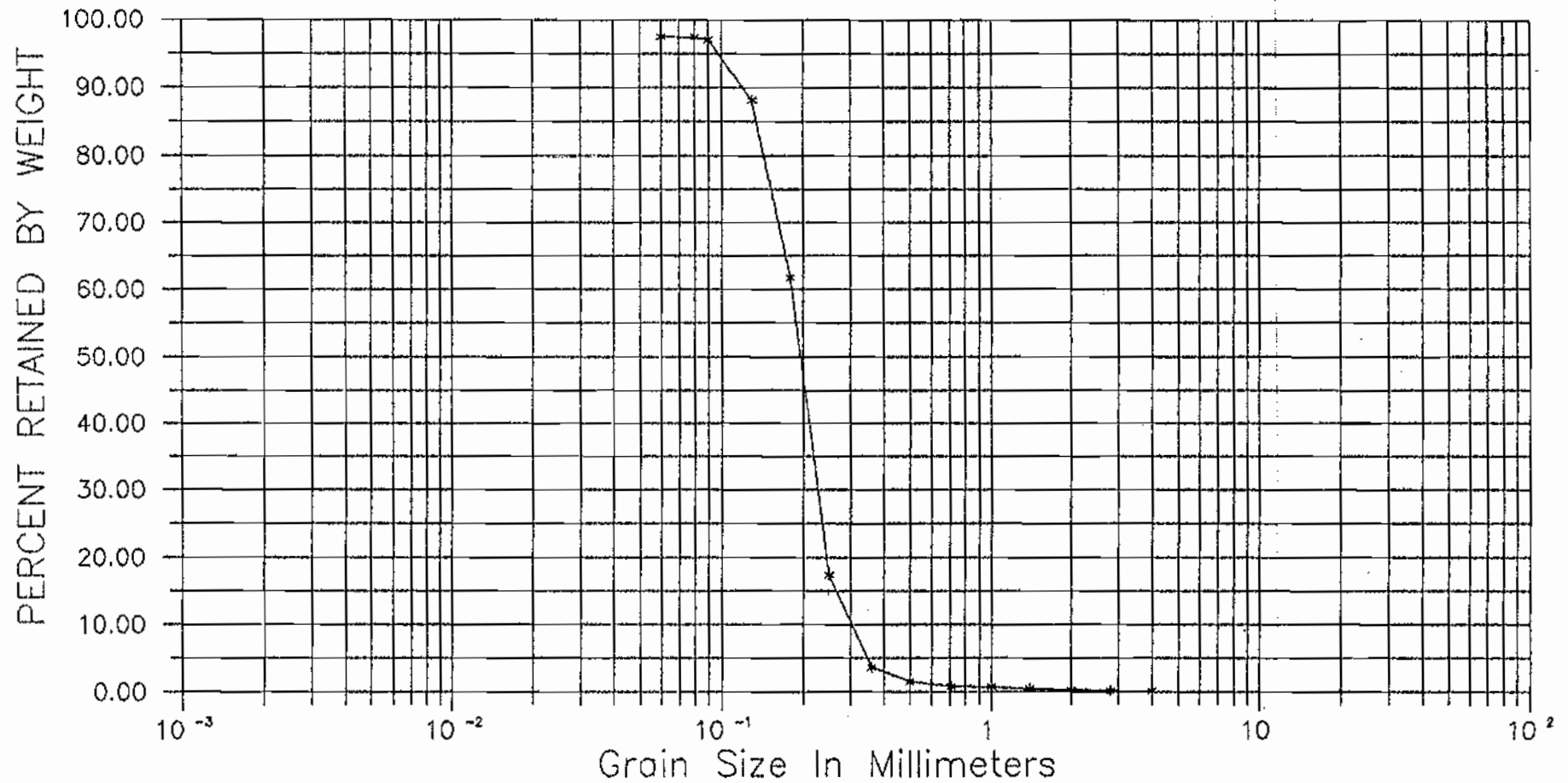
SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
1			
3.5'	.25mm	.27mm	.52
	.25mm	.25mm	.46
	GREY POORLY GRADED SAND - (SP)		

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MECHANICAL ANALYSIS CHART



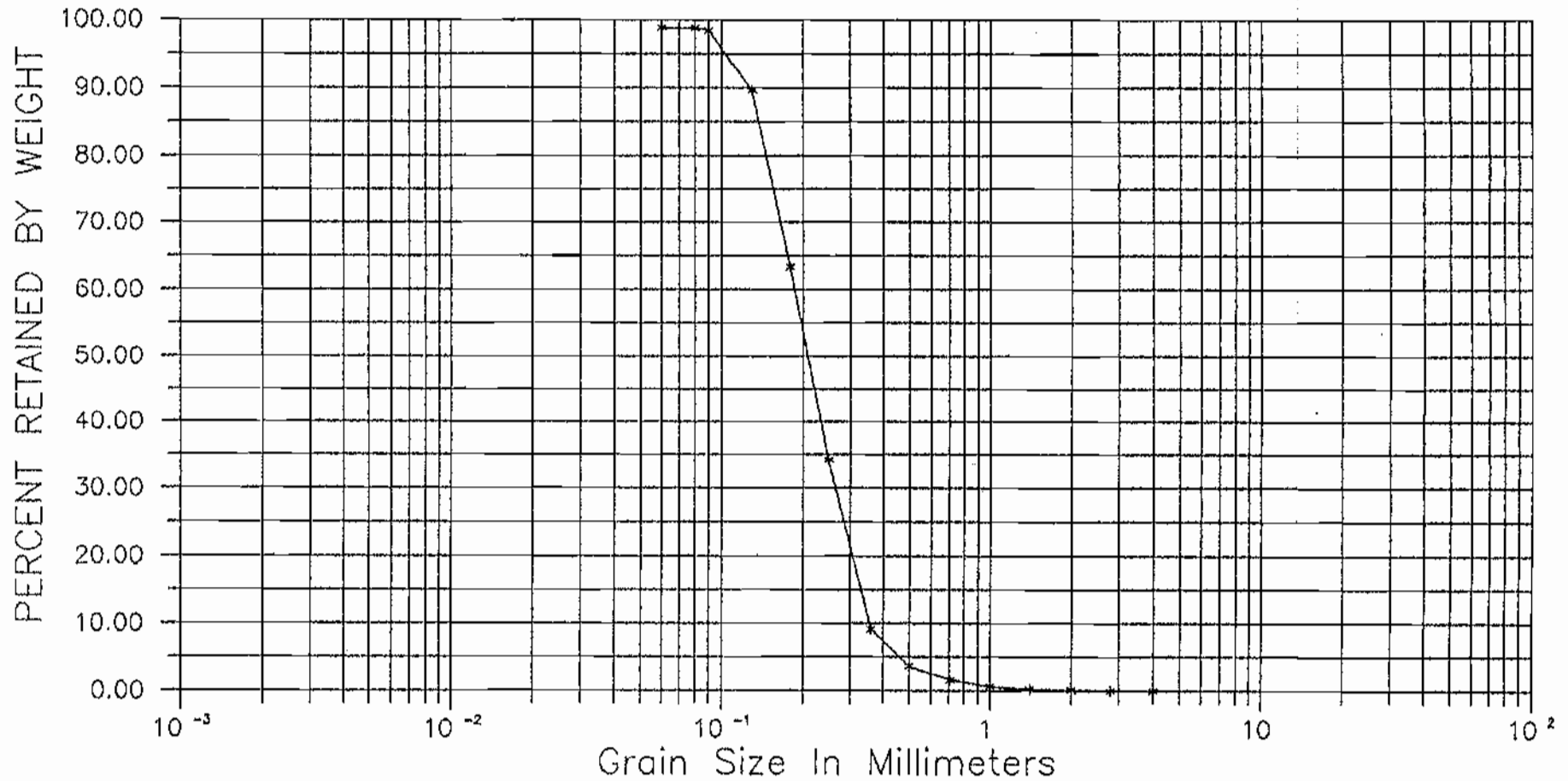
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
11.6'	.19mm	.20mm	.45
	.19mm	.20mm	.42
GREY POORLY GRADED SAND - (SP)			

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
1	MEAN	MEDIAN	SORTING
17.7'	.22mm	.21mm	.57
	.20mm	.20mm	.65
	GREY POORLY GRADED SAND - (SP)		